

I CLAIM:

1. A cable assembly comprising:  
an insulating housing defining a plurality of channels; and  
a plurality of circuit modules juxtaposed in the housing, each circuit module comprising a circuit board received in a corresponding channel of the housing, a plurality of coaxial cables connecting to the circuit board, a cable clamp binding the cables together, and a grounding plate, each coaxial cable being electrically connected with the grounding plate.
2. The cable assembly as described in claim 1, wherein each coaxial cable comprises a conductive core and a metal braid surrounding the conductive core, and wherein the conductive core is soldered to the circuit board, and the metal braid is soldered with the grounding plate.
3. The cable assembly as described in claim 1, wherein each circuit board defines a plurality of cavities and the grounding plate has a plurality of tabs retained in corresponding cavities of the circuit board.
4. The cable assembly as described in claim 1, wherein each cable clamp comprises a first and a second stamped metallic sections clamping the coaxial cables from opposite sides.
5. The cable assembly as described in claim 4, wherein the first section defines a plurality of rooms and the coaxial cables are depressed into the rooms by the second section.
6. The cable assembly as described in claim 1, further comprising a fastening element, and wherein each cable clamp defines at least one through hole for insertion of the fastening element.

7. A cable assembly comprising:

an insulating housing comprising a plurality of channels and an aperture extending along a direction perpendicular to the channels;

a plurality of circuit modules each comprising a circuit board being retained in a corresponding channel of the housing and defining therethrough a hole aligned with the aperture of the housing, a plurality of cables electrically connecting to one side of the circuit board, and a grounding plate attached to an opposite side of the circuit board, each cable comprising a metal braid electrically soldered with grounding plate;

a cover comprising first and second halves jointed together and being attached to the housing, the cover defining a bore extending through the first and second halves; and

first and second fastening elements respectively inserted into the holes of the circuit boards through the aperture of the housing and the bore of the cover for retaining the circuit modules relative to the housing.

8. The cable assembly as described in claim 6, wherein each circuit board defines a plurality of cavities and the grounding plate has a plurality of tabs retained in corresponding cavities of the circuit board.

9. The cable assembly as described in claim 8, wherein each circuit module further comprises a cable clamp binding the cables together.

10. The cable assembly as described in claim 9, further comprising a third fastening element, and wherein the cable clamp defines a through hole therein for providing the third fastening element inserting thereinto.

11. A cable assembly comprising:

an insulative housing;

a plurality of juxtaposed printed circuit boards disposed in the housing, each of said printed circuit boards defining opposite first and second surfaces;

a plurality of juxtaposed coaxial cables located along a rear edge section of each of said printed circuit boards, each of said cables extending along a first direction parallel to the corresponding printed circuit board while substantially perpendicular to a rear edge of the corresponding printed circuit board; and

a grounding plate fixedly positioned on the second surface of said each of the printed circuit boards around the corresponding rear edge section,

said each of said cables defining an inner conductor, an inner insulator, a metallic braiding and an outer insulator concentrically arranged with one another in outward sequence, the inner conductor soldered on the first surface while the braiding mechanically and electrically connected to the grounding plate.

12. The assembly as described in claim 11, wherein said each of the printed circuit boards defines in the corresponding rear edge section a cutout in which the braiding of each of said cables is located to engage the grounding plate located beside said cutout in a second direction perpendicular to said first direction.